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BLAST 2 SEQUENCES

This tool produces the alignment of two given sequences using BLAST engine for local alignment. Currently only blastn and blastp programs are available. Using sequences > 150 Kb is not recommended.

Reference: Tatiana A. Tatusova, Thomas L. Madden (1999), "Blast 2 sequences - a new tool for comparing protein and nucleotide sequences", FEMS Microbiol Lett. 174:247-250

Program Matrix

Parameters used in BLASTN program only:

Reward for a match: Penalty for a mismatch:

Open gap and extension gap penalties
gap x dropoff expect word size Filter

Sequence 1 Enter accession or GI Heavy Chain CDR1

or sequence in FASTA format from: to:

DTYIHK

Murine 21.6

Sequence 2 Enter accession or GI

or sequence in FASTA format from: to:

SYWMHK

residues 50-54 of
Seq ID NO: 15

Comments and suggestions to: blast-help@ncbi.nlm.nih.gov

Credits to: Tatiana Tatusov and Tom Madden



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Matrix BLOSUM62 gap open: gap extension:
x_dropoff: expect: wordsize: Filter Align

Sequence 1 lcl|seq_1 Length 5

Sequence 2 lcl|seq_2 Length 5

No significant similarity was found

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Program Matrix

Parameters used in BLASTN program only:

Reward for a match: Penalty for a mismatch:

Open gap and extension gap penalties

gap x dropoff expect word size Filter

Sequence 1 Enter accession or GI

Heavy Chain CDR2

or sequence in FASTA format from: to:

RIDPANGYTKYDPKFQG

Maine 21.6

Sequence 2 Enter accession or GI

or sequence in FASTA format from: to:

EIDPSESNTNYNQKFKG

residues 69-85 of
SEQ ID NO: 15

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EXHIBIT

E

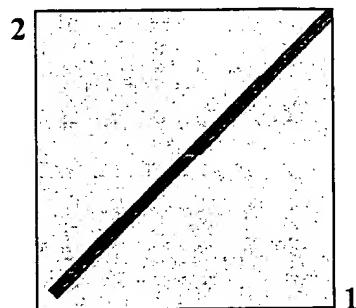
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BLAST 2 SEQUENCES RESULTS VERSION BLASTP 2.0.9 [May-07-1999]

Matrix BLOSUM62 gap open: gap extension:
 x dropoff: expect: wordsize: Filter Align

Sequence 1 lcl|seq_1 Length 17 (1 .. 17)

Sequence 2 lcl|seq_2 Length 17 (1 .. 17)



NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

Score = 22.3 bits (46), Expect = 359
 Identities = 8/16 (50%), Positives = 11/16 (68%)

Query: 2 IDPANGYTKYDPKFQG 17
 IDP+ T Y+ KF+G
 Sbjct: 2 IDPSESNTNYNQKFKG 17

CPU time: 0.03 user secs. 0.02 sys. secs 0.05 total secs.

Gapped:
 Lambda: K H
 0.270 0.0470 0.230

Matrix: BLOSUM62
 Gap Penalties: Existence: 11, Extension: 1
 Number of Hits to DB: 6
 Number of Sequences: 0
 Number of extensions: 1
 Number of successful extensions: 1
 Number of sequences better than 100000.0: 1
 Number of HSP's better than 100000.0 without gapping: 1
 Number of HSP's successfully gapped in prelim test: 0
 Number of HSP's that attempted gapping in prelim test: 0
 Number of HSP's gapped (non-prelim): 1
 length of query: 17
 length of database: 90,077,593
 effective HSP length: 0
 effective length of query: 21

effective length of database: 90077593
effective search space: 1891629453
effective search space used: 1891629453
T: 9
A: 40
X1: 17 (7.3 bits)
X2: 128 (49.9 bits)
X3: 128 (49.9 bits)
S1: 29 (15.5 bits)
S2: 26 (14.5 bits)

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Program Matrix

Parameters used in BLASTN program only:

Reward for a match: Penalty for a mismatch:

Open gap and extension gap penalties

gap x_dropoff expect word size Filter

Sequence 1 Enter accession or GI

Heavy Chain CDR3

or sequence in FASTA format from: to:

EGYFGNYGVYAMDY

216 Hc

Sequence 2 Enter accession or GI

or sequence in FASTA format from: to:

GGYDGWDYAIIDY

residues 118-129 of

SEQ ID No: 15

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Matrix gap open: gap extension:
x_dropoff: expect: wordsize: Filter Align

Sequence 1 lcl|seq_1 Length 14

Sequence 2 lcl|seq_2 Length 12

No significant similarity was found